AUTHOR INDEX TO VOLUME 139

Agarwal, S.K., see A.G. Vedeshwar 139 (1989) 415
Agrawal, D.C., see V.J. Menon 139 (1989) 130
Albert, D.Z. and L. Vaidman, On a proposed postulate of state-reduction 139 (1989) 1
Albertini, G., B.M. McCoy and J.H.H. Perk, Level crossing transitions and the massless phases of the superintegrable chiral Potts chain 139 (1989) 204
Anastassakis, E., Volume dependence of the mode effective charge in multimode crystals 139 (1989) 465
Angaroni, C., see L. Galgani 139 (1989) 221
Ansbacher, W., Y. Li and E.H. Pinnington, Precision lifetime measurement for the 3p levels of Mg II using frequency-doubled laser radiation to excite a fast ion beam 139 (1989) 165
Aranson, I.S., K.A. Gorshkov and M.I. Rabinovich, Stochastization and spreading of wave trains in an oscillating potential 139 (1989) 65
Aranson, I.S. and N.F. Rul'kov, Nontrivial structure of synchronization zones in multidimensional systems 139 (1989) 375
Artru, M.-C., see J.-F. Wyart 139 (1989) 387
Aumayr, F., see G. Lakits 139 (1989) 395
Averbukh, I.Sh. and N.F. Perelman, Fractional revivals: universality in the long-term evolution of quantum wave packets beyond the correspondence principle dynamics 139 (1989) 449
Azzoni, C.B., A. Paleari, G.B. Parravicini, G. Samoggia, F. Parmigiani and M. Scagliotti, Magnetic properties of sintered $BaCuO_2$ 139 (1989) 411

Bahlouli, H., Anisotropic nuclear spin relaxation rate 139 (1989) 261
Bakhan'kov, A.A., Lyapunov stability of motion in Ernst space–time 139 (1989) 125
Barabasi, A.-L., L. Nitsch and I.A. Dorobantu, Supertracks and *n*th order windows in the chaotic regime 139 (1989) 53
Barbiellini-Amidei, B. and T. Jarlborg, Nonlocal density WDA-LMTO band calculations in transition metals 139 (1989) 75
Berman, M.S., Density perturbations in the inflationary phase for Brans–Dicke cosmology 139 (1989) 119
Bhide, V.G., see G. Srinivasan 139 (1989) 338
Bist, H.D., see A.G. Vedeshwar 139 (1989) 415
Blümel, R. and K. Dietrich, Bound states of neutrons in the cylindrically symmetric magnetic field of a thin current carrying wire 139 (1989) 236
Bonnor, W.B. and F.I. Cooperstock, Does the electron contain negative mass? 139 (1989) 442
Boozer, A.H., see E.R. Tracy 139 (1989) 318
Bora, D., Curvature induced low frequency instabilities in a toroidal plasma 139 (1989) 308
Burlatsky, S.F., G.S. Oshanin and A.A. Ovchinnikov, Fluctuation-dominated kinetics of incoherent excitation quenching 139 (1989) 241
Burlatsky, S.F., see G.S. Oshanin 139 (1989) 245
Bužek, V., Jaynes–Cummings model with intensity-dependent coupling interacting with squeezed vacuum 139 (1989) 231

Caticha, N., see J. Chahine 139 (1989) 360

Chacón, M., see R.A. Vargas 139 (1989) 81
Chahine, J., J. Drugowich de Felício and N. Caticha, Using the Ferrenberg–Swendsen Monte Carlo method for nonuniversal exponents 139 (1989) 360
Cherayil, B.J. and H.A. Scheraga, On the equivalence between polymers in quenched disorder and randomly dilute n-vector models 139 (1989) 175
Chrapeć, J. and S.J. Rzoska, Nonlinear dielectric effect investigation in the immediate vicinity of the critical point 139 (1989) 343
Cooperstock, F.I., see W.B. Bonnor 139 (1989) 442
Czachor, M., Mackinnon's soliton reexamined 139 (1989) 193
Czerbniak, J., see M. Moneta 139 (1989) 399

Dabrowski, B., see W. Peng 139 (1989) 91
Dai, H.H. and A. Jeffrey, The inverse scattering transforms for certain types of variable coefficient KdV equations 139 (1989) 369
Dai, X., see G. Huang 139 (1989) 373
Dandoloff, R., Berry's phase and Fermi–Walker parallel transport 139 (1989) 19
Dartyge, E., see H. Tolentino 139 (1989) 474
De Goede, J., see R.J. van den Berg 139 (1989) 249
Derzhanski, A., Curvature-induced polarization of bilayer lipid membranes 139 (1989) 170
De Vos, A., see R.J. van den Berg 139 (1989) 249
Devyatko, Yu.N. and V.N. Tronin, Noise-induced phase transition in a system of interacting Brownian particles 139 (1989) 27
Dietrich, K., see R. Blümel 139 (1989) 236
Dolgopolov, V.T., R.K. Nikolaev, L.V. Ovchinnikova and N.S. Sidorov, Variation of the acoustic resonance frequency in high-T_c ceramics in a dc magnetic field 139 (1989) 253
Dorobantu, I.A., see A.-L. Barabasi 139 (1989) 53
Droz-Vincent, P., Perturbation of relativistic particle systems 139 (1989) 9
Drugowich de Felício, J., see J. Chahine 139 (1989) 360
Dumont, H., see I. Kelson 139 (1989) 406
Dussert, C., G. Rasigni and M. Rasigni, Minimal spanning tree approach to percolation and conductivity threshold 139 (1989) 35

Eilbeck, J.C., P.C. Fife, J.E. Furter, M. Grinfeld and M. Mimura, Stationary states associated with phase separation in a pure material. I. The large latent heat case 139 (1989) 42
Enginol, T.B., An inflationary cosmology with varying G 139 (1989) 127
Evdokimova, V.V., see A. Jeżowski 139 (1989) 265

Fife, P.C., see J.C. Eilbeck 139 (1989) 42
Figueiredo, W., see B.C.S. Grandi 139 (1989) 281
Fleischmann, H.H., see R. Jayakumar 139 (1989) 313
Fontaine, A., see H. Tolentino 139 (1989) 474
Forti, L., see L. Galgani 139 (1989) 221
Fricke, B., see B. Thies 139 (1989) 161
Furter, J.E., see J.C. Eilbeck 139 (1989) 42

Galgani, L., C. Angaroni, L. Forti, A. Giorgilli and F. Guerra, Classical electrodynamics as a nonlinear dynamical system 139 (1989) 221

Genis, A.P., see W. Peng 139 (1989) 91
Ghosh, P.K., A bond-diluted Ising model on a generalized Fibonacci lattice 139 (1989) 275
Gibbons, J. and B.A. Kupershmidt, Kinetic representation of the KP hierarchy 139 (1989) 141
Giorgilli, A., see L. Galgani 139 (1989) 221
Gladkov, S.O., Stabilization of mirror isomers behind the shock front 139 (1989) 156
Glinchuk, M.D., see B.E. Vugmeister 139 (1989) 471
Goldiner, M.G., see V.A. Mazur 139 (1989) 485
Goodby, J.W., see S.-D. Lee 139 (1989) 71
Gorshkov, K.A., see I.S. Aranson 139 (1989) 65
Gourieux, T., see H. Tolentino 139 (1989) 474
Grammaticos, B. and A. Ramani, Why some integrable (2-D) Hamiltonians cannot be extended to higher dimensions 139 (1989) 299
Grandi, B.C.S. and W. Figueiredo, Spin-flop transition in anisotropic antiferromagnets 139 (1989) 281
Grinfeld, M., see J.C. Eilbeck 139 (1989) 42
Grünbaum, F.A., The Kadomtsev–Petviashvili equation: an alternative approach to the "rank two" solutions of Krichever and Novikov 139 (1989) 146
Guerra, F., see L. Galgani 139 (1989) 221

Hagmann, S., see C. Kelbch 139 (1989) 304
Hand, L.N. and A. Skuja, The QED calculation of spin–orbit coupling resonances in electron storage rings 139 (1989) 291
Hannon, R.H., see W. Peng 139 (1989) 91
Hatheway, A.E., see A. Mufti 139 (1989) 115
Herdegen, A., Geometric structure of quantum-mechanical evolution 139 (1989) 109
Hinks, D.G., see W. Peng 139 (1989) 91
Hossain, M., see Y. Zhou 139 (1989) 330
Huang, G., S. Luo and X. Dai, Exact and explicit solitary wave solutions to a model equation for water waves 139 (1989) 373

Jarlborg, T., see B. Barbiellini-Amidei 139 (1989) 75
Jayakumar, R. and H.H. Fleischmann, Density and energy distribution of epithermal secondary electrons in a plasma with fast charged particles 139 (1989) 313
Jeffrey, A., see H.H. Dai 139 (1989) 369
Jeżowski, A., A.J. Zaleski, H. Misiorek, E.P. Khlybov and V.V. Evdokimova, Anomalous behaviour of thermal conductivity of Tl–Ba–Ca–Cu–O 139 (1989) 265

Kaiser, F. and D. Merkle, Routes to chaos in a delay-differential equation system modelling a passive optical resonator 139 (1989) 133
Kalafati, Yu.D. and I.E. Reshetnikov, Nonlocal mechanism of periodic structure formation in laser-induced chemical vapor deposition 139 (1989) 277
Kaminaga, Y., "Trace anomaly approach" to black hole evaporation – a critique 139 (1989) 357
Kaneko, K., Self-consistent Perron–Frobenius operator for spatiotemporal chaos 139 (1989) 47
Karpman, V.I., J.J. Rasmussen and S.K. Turitsyn, Hamiltonian structure of the reduced equations for the ponderomotive interaction between a whistler and fast magnetic sound waves 139 (1989) 423
Karpman, V.I., Relation between modulational instability and parametric decay, Phys. Lett. A 136 (1989) 221. Erratum 139 (1989) 485

Kath, W.L., see D.J. Muraki 139 (1989) 379
Kelbch, C., S. Hagmann, S. Kelbch, R. Mann, R.E. Olson, S. Schmidt and H. Schmidt-Böcking, Observation of structures in the binary encounter peak in fast uranium–gas collisions 139 (1989) 304
Kelbch, S., see C. Kelbch 139 (1989) 304
Kelson, I., H. Dumont, B. Perraillon, D. Nir and A. Zidon, Identification of nuclear delayed desorption in physical systems 139 (1989) 406
Khlybov, E.P., see A. Jeżowski 139 (1989) 265
Kiefer, C., Quantum gravity and Brownian motion 139 (1989) 201
Kim, Y.S. and M. Li, Squeezed states and thermally excited states in the Wigner phase-space picture of quantum mechanics 139 (1989) 445
Kimball, C.W., see W. Peng 139 (1989) 91
Krása, J. and M. Lokajíček, Corpuscular character of the light and time delay in the process of stimulated emission 139 (1989) 189
Krill, G., see H. Tolentino 139 (1989) 474
Kuklov, A.B., Soliton-like excitations in strongly anharmonic media 139 (1989) 270
Kulkarni, S.K., see G. Srinivasan 139 (1989) 338
Kupershmidt, B.A., see J. Gibbons 139 (1989) 141
Kuz'min, M.D., A.I. Popov and A.K. Zvezdin, Magnetic anisotropy in La_2CuO_4 139 (1989) 419
Kwong, N.H., see A. Mufti 139 (1989) 115

Laikhtman, B. and E.L. Wolf, Tunneling time and effective capacitance for single electron tunneling 139 (1989) 257
Lakits, G., F. Aumayr and H. Winter, On the statistics of heavy-particle-induced kinetic electron emission from a clean metal surface 139 (1989) 395
Lan, H. and K. Wang, Exact soliton solution in ice-like structures 139 (1989) 61
Lee, H., see W. Peng 139 (1989) 91
Lee, S.-D., J.S. Patel, J.W. Goodby and M.A. Waugh, Electric field effect on the chiral smectic C*–A* phase transition 139 (1989) 71
Li, M., see Y.S. Kim 139 (1989) 445
Li, Y., see W. Ansbacher 139 (1989) 165
Lippmaa, M., E. Realo and K. Realo, Quadrupole interaction at the Eu site in the Eu-$Ba_2Cu_3O_{7-x}$ superconductor 139 (1989) 353
Lokajíček, M., see J. Krása 139 (1989) 189
Lu, P., Y. Shan and D.S. Wolde-Kidane, Pressure dependence of the excitation spectrum of He II 139 (1989) 384
Łuczka, J., Stochastic processes with colored Gaussian noise: the small noise limit revisited 139 (1989) 29
Luo, S., see G. Huang 139 (1989) 373

Mahmood, M.F., Low energy electron collision phenomena in $HgBr_2$ and CH_3HgBr relevant to discharge pumped mercury bromide lasers 139 (1989) 461
Maia, M.D. and W.L. Roque, Classical membrane cosmology 139 (1989) 121
Malov, Yu.A. and D.F. Zaretsky, Ballistic electrons in semiconducting superlattices 139 (1989) 347
Mann, A., M. Revzen and H. Umezawa, Temperature in a pure state? 139 (1989) 197
Mann, R., see C. Kelbch 139 (1989) 304
Mashhoon, B., Electrodynamics in a rotating frame of reference 139 (1989) 103
Maurer, M., see H. Tolentino 139 (1989) 474

Mazur, V.A. and M.G. Goldiner, Low temperature disintegration of thin solid films, Phys. Lett. A 137 (1989) 69. Erratum 139 (1989) 485
McCoy, B.M., see G. Albertini 139 (1989) 204
Melim, V.J., see W. Peng 139 (1989) 91
Menon, V.J. and D.C. Agrawal, The concept of enforced adiabats 139 (1989) 130
Merkle, D., see F. Kaiser 139 (1989) 133
Mielke, E.W., see M. Sué 139 (1989) 21
Mimura, M., see J.C. Eilbeck 139 (1989) 42
Misiorek, H., see A. Jeżowski 139 (1989) 265
Mizutani, A. and K. Tsubono, Coupling of vibration modes in a resonant antenna for gravitational radiation 139 (1989) 457
Mokhov, O.I., Vorticity equation of two-dimensional hydrodynamics of an incompressible fluid as canonical Hamiltonian system 139 (1989) 363
Moneta, M. and J. Czerbniak, Charge state of planar channeled ions 139 (1989) 399
Moorthy, V.N., see A.G. Vedeshwar 139 (1989) 415
Mozhaev, V.G., A new type of surface acoustic waves in solids due to nonlinear elasticity 139 (1989) 333
Mufti, A., N.H. Kwong, K.J. Schaudt, A.E. Hatheway and H.A. Schmitt, Search for the fifth force using Gauss's law 139 (1989) 115
Muraki, D.J. and W.L. Kath, Polarization dynamics for solitons in birefringent optical fibers 139 (1989) 379
Murayama, Y., see S. Saito 139 (1989) 85

Namiot, V.A., The problem of point walk relevant to simulation of quantum equations 139 (1989) 14
Narlikar, A.V., see A.G. Vedeshwar 139 (1989) 415
Nester, J.M., A positive gravitational energy proof 139 (1989) 112
Nicolás, J.A., see J.R. Sanmartín 139 (1989) 327
Nigavekar, A.S., see G. Srinivasan 139 (1989) 338
Nikolaev, R.K., see V.T. Dolgopolov 139 (1989) 253
Nir, D., see I. Kelson 139 (1989) 406
Nitsch, L., see A.-L. Barabasi 139 (1989) 53

Oboznov, V.A. and A.V. Ustinov, Experimental evidence for supersoliton modes in a long modulated Josephson junction 139 (1989) 481
Olson, R.E., see C. Kelbch 139 (1989) 304
Omote, M. and H. Yoshida, Apparent superluminal motions of images by a gravitational lens 139 (1989) 454
Oshanin, G.S., see S.F. Burlatsky 139 (1989) 241
Oshanin, G.S., S.F. Burlatsky and A.A. Ovchinnikov, Fluctuation-dominated kinetics of irreversible bimolecular reactions with external random sources on fractals 139 (1989) 245
Ovchinnikov, A.A., see S.F. Burlatsky 139 (1989) 241
Ovchinnikov, A.A., see G.S. Oshanin 139 (1989) 245
Ovchinnikova, L.V., see V.T. Dolgopolov 139 (1989) 253

Palacios, I., see R.A. Vargas 139 (1989) 81
Paleari, A., see C.B. Azzoni 139 (1989) 411
Parmigiani, F., see C.B. Azzoni 139 (1989) 411
Parravicini, G.B., see C.B. Azzoni 139 (1989) 411
Patel, J.S., see S.-D. Lee 139 (1989) 71

Peng, W., R.H. Hannon, H. Lee, A.P. Genis, V.J. Melim, C.W. Kimball, B. Dabrowski and D.G. Hinks, Chemistry and valence of Sb-substitution for Bi in high T_c $Bi_{1-x}Sb_xSrCaCu_2O_y$ and $Bi_{2-x}Sb_xSr_2CaCu_2O_y$ superconductors 139 (1989) 91
Perelman, N.F., see I.Sh. Averbukh 139 (1989) 449
Perk, J.H.H., see G. Albertini 139 (1989) 204
Perraillon, B., see I. Kelson 139 (1989) 406
Pinnington, E.H., see W. Ansbacher 139 (1989) 165
Popov, A.I., see M.D. Kuz'min 139 (1989) 419
Pramatarov, P., see M. Stefanova 139 (1989) 391

Rabinovich, M.I., see I.S. Aranson 139 (1989) 65
Ramani, A., see B. Grammaticos 139 (1989) 299
Rao, C.V.N., see A.G. Vedeshwar 139 (1989) 415
Rasigni, G., see C. Dussert 139 (1989) 35
Rasigni, M., see C. Dussert 139 (1989) 35
Rasmussen, J.J., see V.I. Karpman 139 (1989) 423
Ravet, M.-F., see H. Tolentino 139 (1989) 474
Realo, E., see M. Lippmaa 139 (1989) 353
Realo, K., see M. Lippmaa 139 (1989) 353
Rédei, M., Quantum conditional probabilities are not probabilities of quantum conditional 139 (1989) 287
Renthal, E. and J. Taboada, Search for soliton modes in helical poly-γ-benzyl-L-glutamate 139 (1989) 57
Reshetnikov, I.E., see Yu.D. Kalafati 139 (1989) 277
Revzen, M., see A. Mann 139 (1989) 197
Ribarič, M. and L. Šušteršič, A differential relation for slowly accelerated pointlike charged particles 139 (1989) 5
Roque, W.L., see M.D. Maia 139 (1989) 121
Roy, B., see P. Roy 139 (1989) 427
Roy, P., B. Roy and R. Roychoudhury, Partial algebraization of spectral problems and supersymmetry 139 (1989) 427
Roy, S.M. and V. Singh, Hidden variable theories without non-local signalling and their experimental tests 139 (1989) 437
Roychoudhury, R., see P. Roy 139 (1989) 427
Rul'kov, N.F., see I.S. Aranson 139 (1989) 375
Rzoska, S.J., see J. Chrapeć 139 (1989) 343

Saito, S. and Y. Murayama, Effect of dissipation on macroscopic quantum tunneling in thin superconducting wires 139 (1989) 85
Samoggia, G., see C.B. Azzoni 139 (1989) 411
Sanmartín, J.R., J. Sanz and J.A. Nicolás, Thermal self-focusing instability in the conduction layer of a laser target 139 (1989) 327
Santos, E., Relevance of detector efficiency in the optical tests of Bell inequalities 139 (1989) 431
Sanz, J., see J.R. Sanmartín 139 (1989) 327
Scagliotti, M., see C.B. Azzoni 139 (1989) 411
Schaudt, K.J., see A. Mufti 139 (1989) 115
Scheraga, H.A., see B.J. Cherayil 139 (1989) 175
Schmidt, S., see C. Kelbch 139 (1989) 304
Schmidt-Böcking, H., see C. Kelbch 139 (1989) 304

Schmitt, H.A., see A. Mufti 139 (1989) 115
Seimenis, J., A new theoretical method for nonlinear dynamical systems 139 (1989) 151
Sepp, W.-D., see B. Thies 139 (1989) 161
Shahabuddin, Md., see A.G. Vedeshwar 139 (1989) 415
Shan, Y., see P. Lu 139 (1989) 384
Shivamoggi, B.K., Charney–Hasegawa–Mima equation: a general class of exact solutions, Phys. Lett. A 138 (1989) 37. Erratum 139 (1989) 485
Sidorov, N.S., see V.T. Dolgopolov 139 (1989) 253
Šimánek, E., Barrier noise and flux creep in high-T_c superconductors 139 (1989) 183
Singh, M., Analytic generating function for the Brillouin spectrum 139 (1989) 213
Singh, V., see S.M. Roy 139 (1989) 437
Skuja, A., see L.N. Hand 139 (1989) 291
Sokolov, I.M., Steady-state chemical reaction on a fractal 139 (1989) 403
Srinivasan, G., S.K. Kulkarni, V.G. Bhide and A.S. Nigavekar, Illumination induced reversible changes in the valence band density of states of hydrogenated amorphous silicon 139 (1989) 338
Stefanova, M. and P. Pramatarov, He–Zn laser with helical configuration of the electrodes 139 (1989) 391
Stesmans, A. and G. Van Gorp, Improved measurement of the q factor of conduction electrons in Li particles embedded in LiF:Li 139 (1989) 95
Sué, M. and E.W. Mielke, Strength of the Poincaré gauge field equations in first order formalism 139 (1989) 21
Šušteršič, L., see M. Ribarič 139 (1989) 5

Taboada, J., see E. Renthal 139 (1989) 57
Thies, B., W.-D. Sepp and B. Fricke, Many-electron relativistic calculation and interpretation of atomic processes in time-dependent heavy-ion scattering 139 (1989) 161
Tolentino, H., E. Dartyge, A. Fontaine, T. Gourieux, G. Krill, M. Maurer, M.-F. Ravet and G. Tourillon, Valence changes of copper under oxygen uptake and removal in $YBa_2Cu_3O_{7-\delta}$ observed in situ by X-ray absorption spectroscopy 139 (1989) 474
Tourillon, G., see H. Tolentino 139 (1989) 474
Tracy, E.R. and A.H. Boozer, A self-consistent kinetic quasiparticle model for wave–plasma interactions 139 (1989) 318
Tróchez, J.C., see R.A. Vargas 139 (1989) 81
Tronin, V.N., see Yu.N. Devyatko 139 (1989) 27
Tsubono, K., see A. Mizutani 139 (1989) 457
Turitsyn, S.K., see V.I. Karpman 139 (1989) 423

Umezawa, H., see A. Mann 139 (1989) 197
Ustinov, A.V., see V.A. Oboznov 139 (1989) 481

Vahala, G., see Y. Zhou 139 (1989) 330
Vaidman, L., see D.Z. Albert 139 (1989) 1
Van den Berg, R.J., A. de Vos and J. de Goede, Electrical noise in solutions of hydrochloric acid in ethanol 139 (1989) 249
Van Gorp, G., see A. Stesmans 139 (1989) 95
Vargas, R.A., M. Chacón, J.C. Tróchez and I. Palacios, Normal-state specific heat of Y–Ba–Cu–O oxides 139 (1989) 81
Vedeshwar, A.G., H.D. Bist, Md. Shahabuddin, S.K. Agarwal, V.N. Moorthy, C.V.N. Rao and A.V. Narlikar, Temperature dependence of microwave loss signal in hafnium doped YBaCuO 139 (1989) 415

Visser, M., A classical model for the electron 139 (1989) 99
Vugmeister, B.E. and M.D. Glinchuk, Attractive dipole–dipole interaction between charge carriers in highly polarizable crystals 139 (1989) 471

Wang, K., see H. Lan 139 (1989) 61
Waugh, M.A., see S.-D. Lee 139 (1989) 71
Wilson, W.G., Quenched dilution tricritical point in the $q=3$, $d=3$ Potts model, Phys. Lett. A 137 (1989) 398. Erratum 139 (1989) 485
Winter, H., see G. Lakits 139 (1989) 395
Wolde-Kidane, D.S., see P. Lu 139 (1989) 384
Wolf, E.L., see B. Laikhtman 139 (1989) 257
Wyart, J.-F. and M.-C. Artru, Addition to the analysis of the Sr VI and Sr VII spectra 139 (1989) 387

Yoshida, H., see M. Omote 139 (1989) 454

Zaleski, A.J., see A. Jeżowski 139 (1989) 265
Zanette, D.H., Evolution of the entropy for an anisotropic Maxwellian gas 139 (1989) 39
Zaretsky, D.F., see Yu.A. Malov 139 (1989) 347
Zhou, Y., M. Hossain and G. Vahala, A critical look at the use of filters in large eddy simulation 139 (1989) 330
Zidon, A., see I. Kelson 139 (1989) 406
Zvezdin, A.K., see M.D. Kuz'min 139 (1989) 419